PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2004/010434 15.07.2004 16.07.2003 International Patent Classification (IPC) or both national classification and IPC C08G8/00, C08G14/00, G03F7/023 Applicant TOKYO OHKA KOGYO CO., LTD. 1. This opinion contains indications relating to the following items: ☑ Box No. I Basis of the opinion ☑ Box No. II Priority ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** 2. If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA: **Authorized Officer**

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Form (PCT/ISA/237) (Cover Sheet) (January 2004)

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/010434

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	Вох	No. I	Basis of the opinion
1.	With the la	regar angua	d to the language , this opinion has been established on the basis of the international application in ge in which it was filed, unless otherwise indicated under this item.
	1	angua	pinion has been established on the basis of a translation from the original language into the following age which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).
2.	With nece	regar ssary	d to any nucleotide and/or amino acid sequence disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. typ	e of r	matérial:
		a s	sequence listing
		tab	ele(s) related to the sequence listing
	b. for	mat o	of material:
		in v	written format
		in o	computer readable form
	c. tim	e of f	iling/furnishing:
		cor	ntained in the international application as filed.
		file	d together with the international application in computer readable form.
		furi	nished subsequently to this Authority for the purposes of search.
3.	t C	nas be copies	lition, in the case that more than one version or copy of a sequence listing and/or table relating thereto een filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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International application No. PCT/JP2004/010434

_	Box	No II	Priority								
1.											
		☐ copy of the earlier application whose priority has been claimed (Rule 43 <i>bis</i> .1 and 66.7(a)).									
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).								
Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date											
2.		This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.									
3.		It has not been possible to consider the validity of the priority claim because a copy of the priority document was not available to the ISA at the time that the search was conducted (Rule 17.1). This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.									
4.	4. Additional observations, if necessary:										
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement										
1.	Stat	Statement									
	Nov	Novelty (N)			Claims Claims	1-4					
	Inventive step (IS)			Yes: No:	Claims Claims	1-4					
	Indu	ustrial a _l	oplicability (IA)	Yes: No:	Claims Claims	1-4					
2.	Cita	tions ar	nd explanations								

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

PCT/JP2004/010434

Re Item V

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Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1: US-B-6 187 5001 (DOI KOUSUKE ET AL) 13 February 2001 (2001-02-13)

D2: EP-A-0 650 091 (SUMITOMO CHEMICAL CO) 26 April 1995 (1995-04-26)

D3: EP-A-0 677 789 (FUJI PHOTO FILM CO LTD) 18 October 1995 (1995-10-18)

- 2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-4 is not new in the sense of Article 33(2) PCT.
- 2.1 D3 discloses a composition comprising an alkali-soluble novolak (D3, column 6, line 5 column 8, line 2), a naphthoquinonediazide substituted compounds (D3, column 8, lines 5-50) and a sensitizer (D3, column 8, line 51 column 9, line 17; examples 1-9) Hence, the subject-matter of claims 1-4 is not new.
- 2.2 D2 discloses a photoresist composition comprising a novolak resin (D2, page 2, line 26 page 3, line 21), novolac type phenolic hydroxyl groups substituted with 1,2-quinonediazide compounds (page 3, line 22 page 5, line 9) and a sensitizers (D2, examples 1-3, Table 4).
 - Hence, the subject-matter of claims 1-4 is not new.
- 2.3 D1 discloses a photoresist composition comprising a novolak (D1, page 3, line 55 page 4, line 34; page 9, lines 33-57) with phenolic hydroxyl groups substituted with 1,2-naphthoquinonediazidosulfonyl groups (D1, page 11, line 11). D1 (Page 6-8; page 12, structures 13-15) also mentions sensitizers. Hence, the subject-matter of claims 1-4 is not new.
- 3. Since the Applicant has not provided information concerning the contribution to the existing state of the art of eventual remaining novel subject-matter, inventive step of such subject-matter cannot be accepted. The subject-matter of claims 1-4 is thus considered as an obvious alternative of the subject-matter disclosed in documents D1-D3.
 - The present application therefore cannot be considered as involving an inventive step (Article 33(3) PCT).